



NCDOT Prioritization 3.0 Project Summary

SPOT ID: H090227-A

Mode: Highway

Status: Submitted

From/Cross Street: NC 50

To: US 70 Bypass

Length: 5.52

Specific Improvement Type: 1 - Widen Existing Roadway

Project Category: Regional Impact

TIP#: R-3410

Fully Funded in Draft STIP? No

Cost to NCDOT: \$56,209,000

Description:

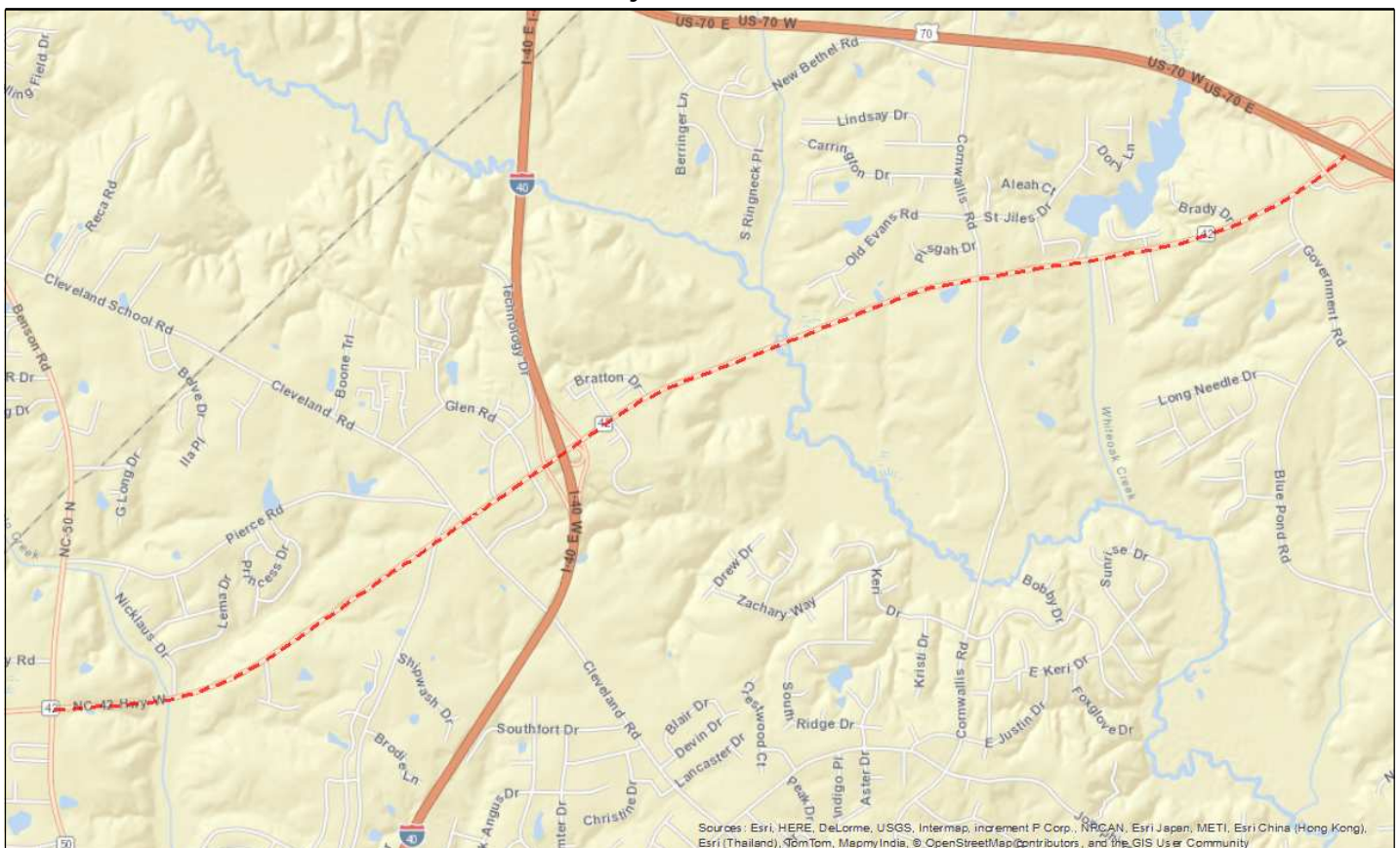
Widen to Multi-Lanes

Division(s): Division 4

County(s): JOHNSTON

MPOS(s)/RPO(s): Capital Area MPO

Project Location



Statewide Mobility Total Score: 0

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
Totals: Weight: 0% Weighted Score: 0	N/A	N/A

Regional Impact Total Score: 58.16

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
Congestion (V/C) (15%) 55.35 Safety (15%) 85.45 Lane Width (10%) 50.00 [Paved] Shoulder Width (10%) 50.00 [Travel Time] Benefit/Cost (20%) 2.46	Percent: 15% Points: 100	Percent: 15% Points: 77
Totals: Weight: 70% Weighted Score: 31.61		

Division Needs Total Score: 24.33

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
Congestion (V/C) (10%) 55.35 Safety (10%) 85.45 Lane Width (10%) 50.00 [Paved] Shoulder Width (10%) 50.00 [Travel Time] Benefit/Cost (10%) 2.46	Percent: 25% Points: 0	Percent: 25% Points: 0
Totals: Weight: 50% Weighted Score: 24.33		

Project Data ***Existing Conditions**

Existing Cross-Section:	
Speed Limit:	51
Length (miles):	5.52
Facility Type:	Arterial
Access Control:	None
Functional Classification:	Minor Arterial
Terrain Type:	Rolling
Lane Width:	10
Paved Shoulder Width:	2
Roadway has Curb & Gutter?	No
Volume (AADT):	19006.35
Capacity:	23884.46
Volume/Capacity Ratio:	0.8
% Autos:	96%
% Trucks:	4%
Truck Volume:	846.55
Crash Density:	99.8
Crash Severity:	71.81
Critical Crash Rate:	84.77
Crash Frequency:	0
Severity Index:	0
County Tier Designation:	3
Non-Interstate STRAHNET Route?	No
Average Commuting Time:	29
Existing Median Type (for Cost Estimation):	Undivided
Pavement Condition Rating:	81
Actual Congested Speed:	36.93
Travel Time Index:	1.38

Project Benefits

Project Cross-Section:	4B - 4 Lane Divided (23' Raised Median) with Paved Shoulders and Sidewalks
Speed Limit:	55
Length (miles):	5.52
Facility Type:	Arterial
Access Control:	Partial
Functional Classification:	Minor Arterial
Terrain Type:	Rolling
DOT Design Lane Width:	12
DOT Design Paved Shoulder Width:	4
Travel Time Savings for 30 Years (Total):	6175728.64
Travel Time Savings for 30 Years (Autos):	5900659.96
Travel Time Savings for 30 Years (Trucks):	275068.68
Long-Term Employment:	
% Change in Economy:	
Provides Direct Connection to Transportation Terminal?	No
Does project upgrade how the roadway functions?	No
In CTP or LRTP?	No
CTP/LRTP Name:	
CTP/LRTP Completion Year:	
Submitted by:	Division 4

* Data reflects calculations which include weighted averages (where applicable) and represent raw output from the Department's SPOT On!line tool and associated databases.

Project Ownership**Division**

Division	Percent	Regional Impact	Division Needs
Division 4	100%	100	0
	0%	0	0
	0%	0	0
TOTAL Division Points		100	0

MPO/RPO

MPO/RPO	Percent	Regional Impact	Division Needs
Capital Area MPO	100%	77	0
	0%	0	0
	0%	0	0
TOTAL MPO/RPO Points		77	0

Project Cost and Source

Construction Cost:	\$45,979,000	Cost Estimation Tool
Right-of-Way Cost:	\$9,134,000	Cost Estimation Tool
Utilities Cost:	\$1,096,000	Cost Estimation Tool
Total Project Cost:	\$56,209,000	
Other Funding:	\$0	None
Cost to NCDOT :	\$56,209,000	